

ultratroc



REFRIGERATION COMPRESSED AIR DRYERS FOR ALL FIELDS OF APPLICATION

LONG-LIVED – SAFE – ENERGY EFFICIENT



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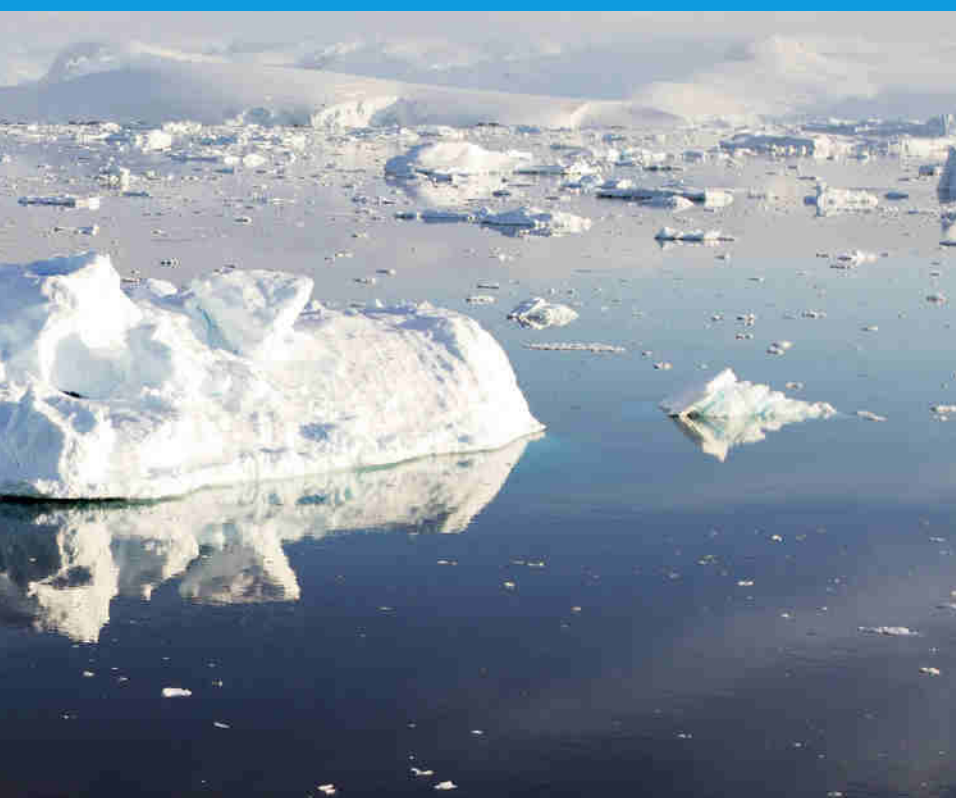
INNOVATIVE COMPANY WITH TRADITION

Ultratroc offers tailored solutions to sophisticated manufacturing customers from all industries in the area of compressed air treatment. The high quality of our products and services is founded on our decades of experience dating back to 1957. Back then; the company was founded under the name „Sabroe Kältetechnik GmbH“ in Flensburg, Germany. With the upcoming expansion of our production portfolio and continual growth, the company has developed into a successful competitor on the global market under changing ownership. Today, our company is independently run by Jan and Inna Weiner and reputable clients from a wide range of industries trust us even when it comes to sophisticated technical installations or extreme operating conditions.

Our small specialised team with its extensive expertise ensures that we are able to deliver solutions in the area of refrigeration and compressed air dryers to customers from our location in Flensburg and via our sales partners. In the process, we guarantee personal, competent customer care from the initial consultation to commissioning, but also up to and including maintenance as well as repairs – all the while with an uncompromising focus on the satisfaction of our customers and the quality of our services and products.

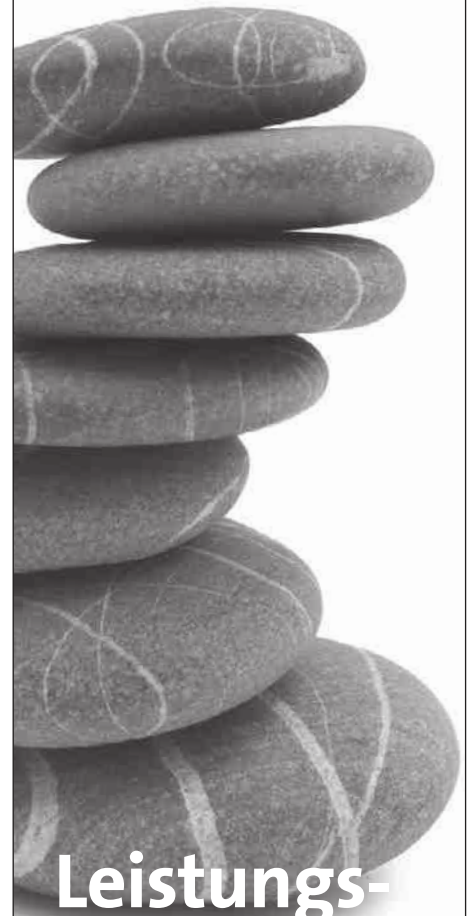


ultratroc



Jan Weiner and Inna Weiner, owners of ultratroc GmbH

For over 50 years, ultratroc, independent from its name and corporate affiliation, has stood for continuity and stability. The long-standing loyalty of our customers and continual optimisation of our products and services testify to this. With them, we have managed to successfully combine tradition and innovation with the goal of becoming a leader both in terms of quality and technology in our industry. Experience the difference and benefit from our proven product solutions – we look forward to hearing from you!



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Compressed air

COMPRESSED AIR TREATMENT: FOR THE HIGHEST LEVEL OF PRODUCT QUALITY

Compressed air has many applications: As an energy carrier for compressed air actuators, for transmitting signals, and nitrogen production, respiratory air, for bottle production, for cleaning or coating, as a process medium for transporting bulk goods, dusts and much more.

Compressed air is a particularly indispensable propulsion and process media in nearly all areas of industrial and manual production with pneumatic equipment.

What benefits does compressed air treatment offer?

Compressed air treatment is crucial regardless of the sector industry when it comes to the uninterrupted availability of all pneumatic processes and systems. It increases efficiency, reduces operating costs and preserves resources. It is created by compressing air and generally tends to contain numerous dirt particles, pollutants and moisture in the form of water vapour. In processes for the production and transport of goods, compressed air that is stored must, however, be dry, free from oil and clean – if this is not the case, operations may be disrupted and result in substantial costs.

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ULTRATROC COMPRESSED AIR TREATMENT OFFERS YOU THE FOLLOWING BENEFITS:

- * improved, consistent product quality
- * compressed air lines that are free from condensation, particles and rust
- * high level of operational security through the prevention of downtimes (reduction of operational disturbances)
- * longer service life for compressed air tools
- * low expenditure for maintenance
- * lower pressure losses due to low flow resistance
- * greater energy efficiency

Compressed air treatment eliminates the risk of damage to the compressed air system itself, but also to machines and other systems; at the same time, the goods being processed retain the very best quality, high energy costs resulting from leakage losses caused by corrosion do not occur and last but not least, neither production nor testing quality are compromised.

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CS INSTRUMENTS GMBH

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MANUFACTURED IN FLENSBURG FOR APPLICATIONS AROUND THE WORLD

To date, we have installed over 250,000 refrigeration dryers to markets around the world. Our products are manufactured at our production site in Flensburg and also distributed via our partners whom we qualify ourselves and train for our products. In order to guarantee the functionality and efficiency of your refrigeration compressed air dryer, we also offer you a replacement part service as part of our comprehensive service policy. We supply you with all of the wearing parts and replacement parts you need – quickly, directly and reliably.





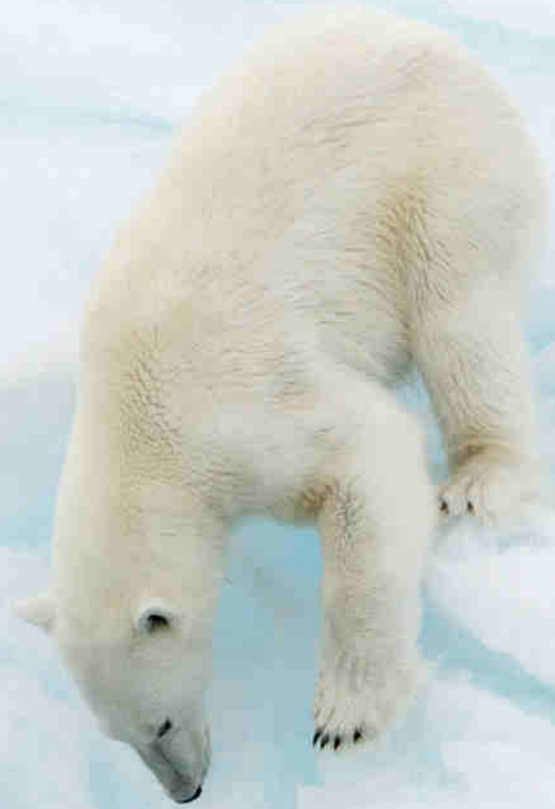
EXPERTISE MEANS BEING A STEP AHEAD

We are an innovative team valued by customers around the world for our reliable, individual refrigeration compressed air dryers "Made in Germany". At the same time, our superbly configured products represent tailored solutions perfectly attuned to the needs of our customers. For decades, we have also designed large and special-purpose systems according to the wishes of our customers.

The respective system solution is implemented in close cooperation with the user and operator for flow volumes of up to 100,000 m³/h. With this approach, a team of competent and experienced consulting engineers performs a comprehensive analysis and needs assessment on location to verify the effectiveness of ultratroc. Together with our trained professionals, they fulfil prerequisites with respect to personnel and technical aspects necessary in order to produce the required high-quality products ultratroc is known for.

Our success and leading position in the area of compressed air technology has led to growing worldwide demand for our products. An increasing number of customers require ultratroc expertise and compel us to not only deliver complete systems for compressed air or gas treatment, but also to offer engineering services for specific needs.

Environment



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Gustav Gross Stahlhandel GmbH
Graf-Zeppelin-Straße 6
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Telefon: +49 (0) 4 61 - 95 7 95-0

Telefax: +49 (0) 4 61 - 95 7 95-7

E-Mail: info@gustav-gross.de

Internet: www.gustav-gross.de



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FOCUS ON THE ENVIRONMENT AND ENERGY EFFICIENCY

We focus not only on economical aspects when it comes to the development and manufacture of our products; ecology also plays a key role when it comes to ultratroc. With sophisticated heat transfer technologies and decisive power-saving strategies, we achieve a high level of energy efficiency with our refrigeration dryers. In the end, they offer users reduced power consumption thereby helping them to reach their own energy efficiency goals.

We also opted for refrigerants that go easy on the environment. Without exception, they comply with the guidelines prescribed by relevant climate protocols (the most recent being Kyoto and Copenhagen). The fact that these refrigerants are highly available and can be used worldwide means that we guarantee our customers a long-lasting future-proof system designed for long-term operation. Whatever the future brings, ultratroc will continue to identify the best refrigerant for drying processes and use it. In so doing, we comply with all energy efficiency targets and tackle new challenges in order to offer our customers the best solutions of today and tomorrow.

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All ultratroc product families offer:

- * Electronic controller without energy dissipation through hot gas regulation
- * 0 corrosion within the heat exchanger through the use of aluminium, copper or stainless steel
- * High level of operational safety
- * Operation up to an ambient temperature of +50°C
- * Environmentally-friendly refrigerants
- * Stable metal housing to protect against dirt and damage



EFFICIENT AND RELIABLE: OUR MODULAR PRODUCT SOLUTIONS

ultratroc BURAN

Demand-based drying is of decisive importance when it comes to keeping operating costs to a minimum. The BURAN line of ultratroc refrigeration dryers account for this perfectly.

9 models capable of treating air volumes from 550 m³/h to 1,650 m³/h (in accordance with ISO 7183) offers the right device for every application. All devices are characterised by low losses in pressure, outstanding product handling and lower power consumption.



ultratroc BURAN also offers:

- * An intelligent energy saving solution with reductions of up to 90%
- * High overload capacity up to 20°C dew point under pressure
- * Compressed air input temperatures up to a maximum of +70°C
- * Compact construction
- * One-of-a-kind TRISAB heat exchanger concept
- * Electronic level-controlled condensate separator
- * Potential-free fault messaging for secure integration in the compressed air network



In addition to the many advantages of the standard product range, ultratroc BORA also offers:

- * Compressed air pressure up to 50 bar
- * Compressed air input temperatures up to a maximum of +60°C
- * Heat-exchangers made of copper brazed stainless steel
- * High level of operational safety
- * Use up to an ambient temperature of +50°C

ultratroc BOREAS also offers, among other things:

- * an intelligent energy saving concept ("Variopulse control") for savings of up to 90%
- * alternative control systems for various applications available
- * various bus interfaces are also available for shipment
- * illuminated multi-function display
- * load-dependant energy consumption, reduction of nominal power consumption
- * frequency-controlled refrigeration compressors from 3,500 m³/h
- * high overload capacity up to 20°C dew point under pressure
- * sufficiently dimensioned aluminium air/air and refrigerant/air-heat exchangers with a large power density and adequately proportioned flow channels
- * compressed air input temperatures up to a maximum of +70°C
- * electronic level-controlled condensate separator



ultratroc BORA

In addition to products belonging to the standard BURAN and BOREAS lines, ultratroc also offers another product line designed specifically to handle special requirements in its series production. Refrigeration dryers from the BORA DHP series (air flow rates of 600 m³/h – 6,000 m³/h) are used when the application requires system pressures between 16 bar and 50 bar, for example, PET bottle production or as starting air for large ship diesel motors.

ultratroc BOREAS

The Boreas product line is designed for treating larger air flow volumes and continues to implement the concept of demand-based drying. This refrigeration dryer demonstrates that combining a proven concept and energy saving strategies while using frequency converters for controlling compressor speeds is an ideal solution. The ultratroc BOREAS is designed for compressed air volumes between 1,800 m³/h and 28,500 m³/h and also excels through very low pressure losses and low power consumption, which keeps operating costs to a minimum.



Brisa

With its superior concept,
ultratroc BRISA offers:

- * low power consumption
- * low airside pressure loss
- * low power consumption in partial load operation with power control
- * fully-automatic operation for compressed air flow rates from 0 to 100%
- * overflow operation of the refrigerant vaporiser guarantees excellent control characteristics
- * high overload capacity
- * wet-air side coating against corrosion
- * easy to clean copper tube heat exchangers without inserted components, end covers can be removed from all sides
- * stainless-steel self-cleaning separator fixtures
- * electronic level-controlled condensate drain

ultratroc BRISA

The new BRISA SE series is an ideal solution for flow volumes from 10,500 m³/h to 25,000 m³/h with a total of 5 models for every application and, thanks to dedicated standardisation and ultra-modern production flows, offers excellent cost efficiency.

The heat exchangers were optimised at extremely low pressure differences. The entire product line is configured with a performance control refrigeration compressor, which corresponds to high energy savings in partial load operation.





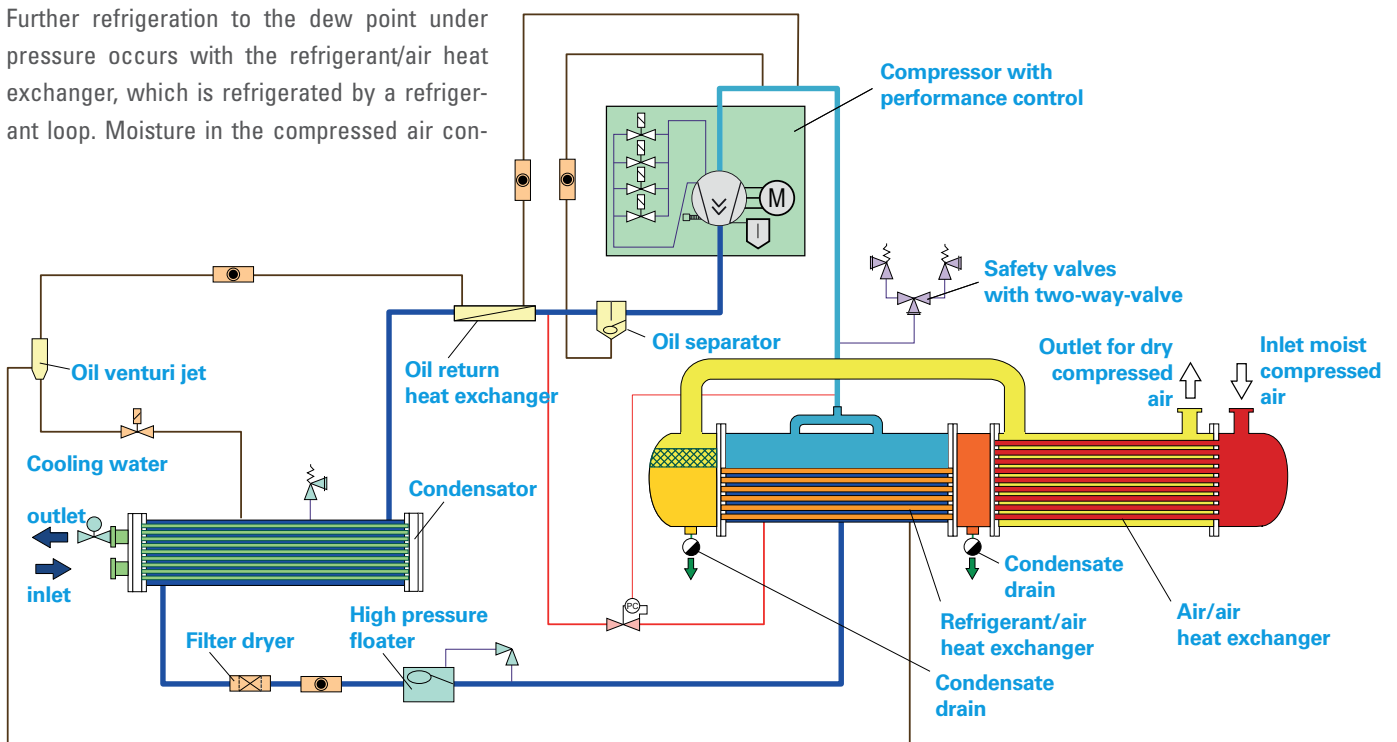
BRISA FUNCTIONAL OPERATION

The compressed air is directed to the refrigeration compressed air dryer for treatment and is pre-cooled in the air/air-heat exchanger. Pre-cooling occurs in counterflow to outgoing, refrigerated compressed air and is achieved entirely without any additional energy requirement.

denses during the entire refrigeration process and is automatically removed via the automatic condensate separator.


The treated compressed air is reheated before escaping from the air/air-heat exchanger with the introduced compressed air. An added bonus is that the formation of condensate on the outside of the compressed air line system is prevented.

Further refrigeration to the dew point under pressure occurs with the refrigerant/air heat exchanger, which is refrigerated by a refrigerant loop. Moisture in the compressed air con-





RELIABILITY, LONG SERVICE LIFE AND QUALITY YOU CAN MEASURE



We strive to ensure that the quality of our products not only meets the stated and unstated expectations of our customers, but also to exceed them to ensure that our customers are completely satisfied.

To do so, we at ultratroc monitor every production phase with controls and tests. To avoid errors, materials and required components undergo numerous tests from the receipt of goods up to and including final assembly. Once production is complete, a trial run is conducted to test all products for proper functioning with the latest test equipment. At the same time, all test results are recorded in a detailed test protocol. This way, the helium leak detecting systems that are installed on every production line are capable of identifying even the smallest leaks even those far below legal limits. At mobile test machines, our refrigerant dryers run through a test programme that evaluates parameters specific to the respective device type under volumetric and thermal loads. The data protocols including performance curves are electronically archived and can be retrieved for the applicable device years later.

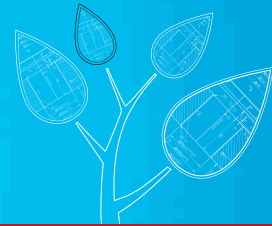
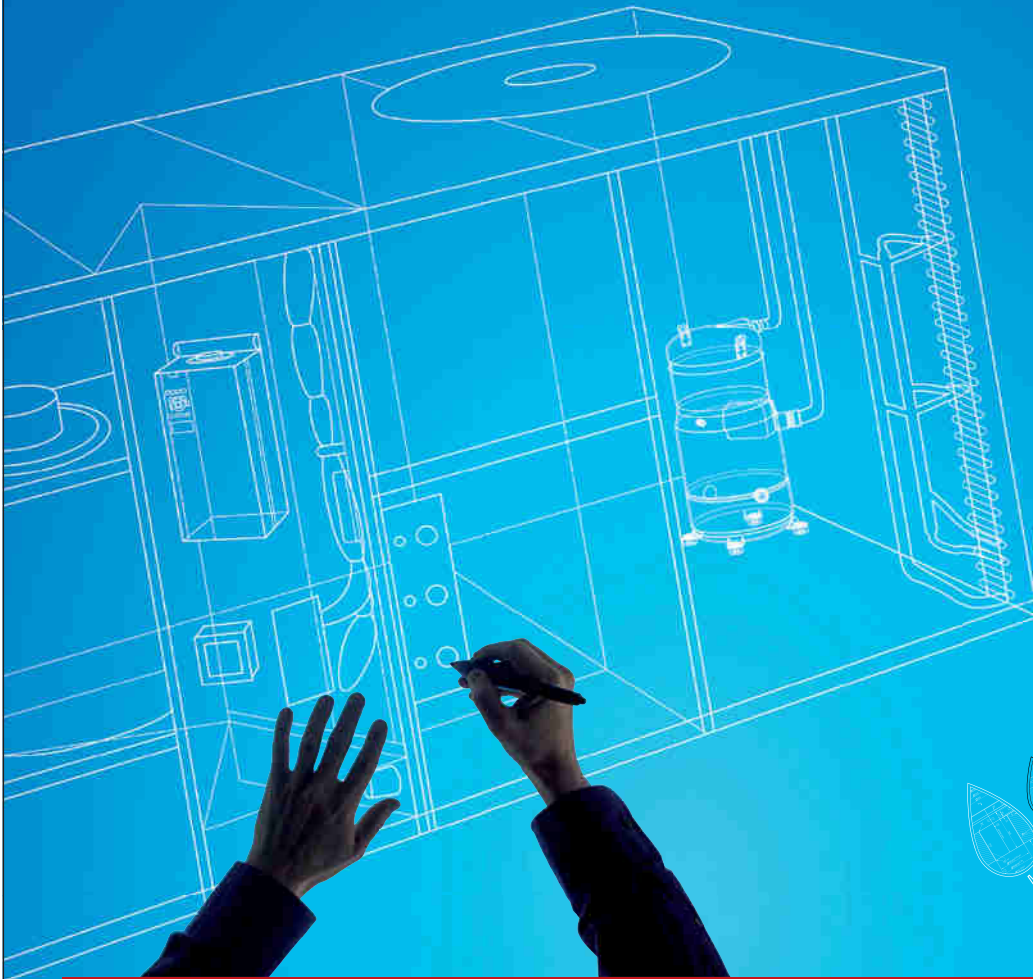
Our stationary performance test shop is unparalleled worldwide. In addition to reference conditions for all applicable standards, all customer-specific parameters can also be measured for the entire performance range of applications. This data basis makes it possible for us to perfectly attune device components to guarantee the high efficiency of our refrigeration dryers.

Of course, we at ultratroc are certified in accordance with DIN EN ISO 9001 and manufacture in accordance with the EU Machinery Directive. A letter from RW-TÜV also confirms that ultratroc refrigerant dryers rightfully bear the CE mark, which we believe is essential for a technological leader.

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CONTACT

ULTRATROC GMBH
DRUCKLUFTECHNIK

Ochsenweg 73
24941 Flensburg
Germany

Telephone: +49 461 949-0
Fax: +49 461 949-369
E-Mail: ultratroc@ultratroc.com
Web: www.ultratroc.com

